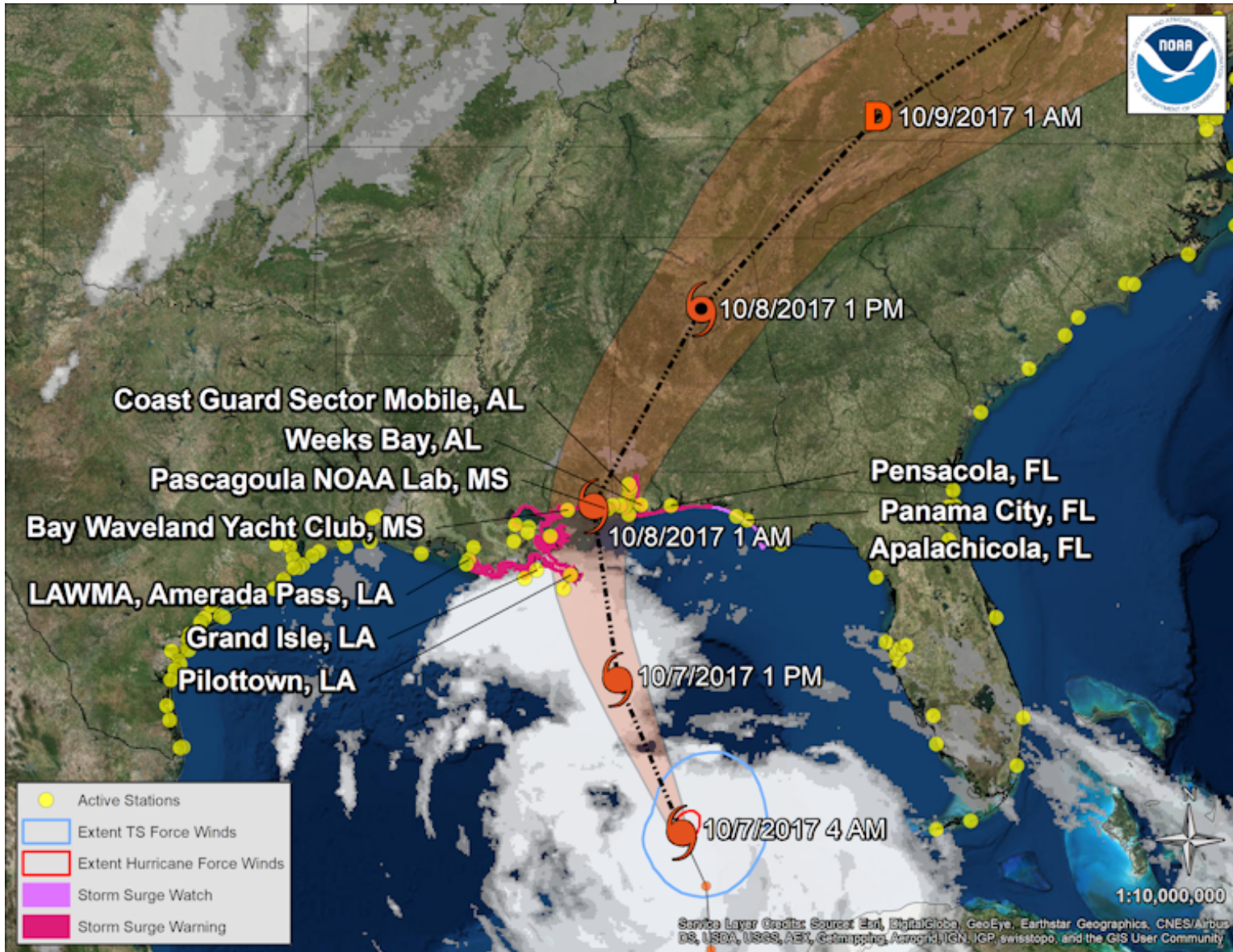




Hurricane NATE QuickLook
Posted: 05:00 CDT 10/07/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 10/07/2017 05:00 CDT, water levels along the Gulf Coast from Amerada Pass, LA to Apalachicola, FL currently range between 1.3 and 1.9 ft above normal tide levels. Winds are following the normal diurnal cycle and range between 5 and 15 knots. Barometric pressure is gradually falling across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: ADM

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Hurricane Nate Advisory Number 12
NWS National Hurricane Center Miami FL
400 AM CDT Sat Oct 07 2017

...HURRICANE NATE CONTINUES MOVING RAPIDLY OVER THE CENTRAL GULF
OF MEXICO...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The governments of Cuba and Mexico have discontinued all watches and warnings.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Grand Isle Louisiana to the Alabama/Florida border
- * Metropolitan New Orleans and Lake Pontchartrain

A Storm Surge Warning is in effect for...

- * Morgan City Louisiana to the Okaloosa/Walton County Line Florida
- * Northern and western shores of Lake Pontchartrain

A Tropical Storm Warning is in effect for...

- * Lake Maurepas
- * West of Grand Isle to Morgan City Louisiana
- * East of the Alabama/Florida border to the Okaloosa/Walton County Line.

A Hurricane Watch is in effect for...

- * Lake Maurepas
- * East of the Alabama/Florida border to the Okaloosa/Walton County Line
- * West of Grand Isle to Morgan City Louisiana

A Storm Surge Watch is in effect for...

- * East of the the Okaloosa/Walton County Line to Indian Pass Florida

A Tropical Storm Watch is in effect for...

- * East of the Okaloosa/Walton County Line to Indian Pass Florida
- * West of Morgan City to Intracoastal City Louisiana

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area, in this case within the next 24 hours. Preparations to protect life and property should be rushed to completion.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Storm Surge Watch means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside the United States, please monitor products issued by your national meteorological service.

DISCUSSION AND 48-HOUR OUTLOOK

At 400 AM CDT, the center of Hurricane Nate was located ABOUT 345 mi SSE OF THE MOUTH OF THE MISSISSIPPI RIVER. Nate is moving toward the north-northwest near 22 mph, and this general fast motion is expected to continue through tonight. A turn toward the north is forecast on Sunday morning, followed by a turn toward the north-northeast thereafter. On the forecast track, the center of Nate will move across the Gulf of Mexico today and will make landfall along the central U.S. Gulf coast tonight.

Maximum sustained winds are near 80 mph with higher gusts. Some strengthening is possible before Nate makes landfall along the northern Gulf coast. Another reconnaissance plane will investigate Nate soon.

Hurricane-force winds extend outward up to 35 miles from the center and tropical-storm-force winds extend outward up to 125 miles. Cabo San Antonio in the western tip of Cuba reported gusts to 53 mph a few hours ago.

The estimated minimum central pressure is 987 mb.

HAZARDS AFFECTING LAND

WIND: Along the northern Gulf Coast, hurricane conditions are expected in the hurricane warning area tonight, with tropical storm conditions expected to begin earlier. Tropical storm conditions are expected in the tropical storm warning area tonight. Hurricane conditions are possible in the hurricane watch area tonight and tropical storm conditions are possible in the tropical storm watch area tonight and Sunday.

STORM SURGE: In the United States, the combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

Morgan City, Louisiana to the mouth of the Mississippi River...4 to 6 ft
Mouth of the Mississippi River to the Alabama/Florida border...5 to 9 ft

Alabama/Florida border to the Okaloosa/Walton County Line...4 to 6 ft
Okaloosa/Walton County Line to Indian Pass, Florida...2 to 4 ft
Indian Pass to Crystal River, Florida...1 to 3 ft

The deepest water will occur along the immediate coast near and to the east of the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Nate is expected to produce the following rain accumulations through Monday:

Eastern Yucatan and western Cuba: 2 to 4 inches, max 6 inches.

Eastern Belize and the Cayman Islands: 1 to 3 inches.

East of the Mississippi River from the central Gulf Coast into the Deep South, eastern Tennessee Valley, and southern Appalachians:

3 to 6 inches, max 10 inches.

Across the Ohio Valley into the central Appalachians:

2 to 4 inches, max 6 inches.

TORNADOES: Isolated tornadoes will be possible beginning later today over parts of the central Gulf Coast region.

SURF: Swells generated by Nate will affect land areas around the western Gulf of Mexico during the next day or so. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 700 AM CDT.

Next complete advisory at 1000 AM CDT.

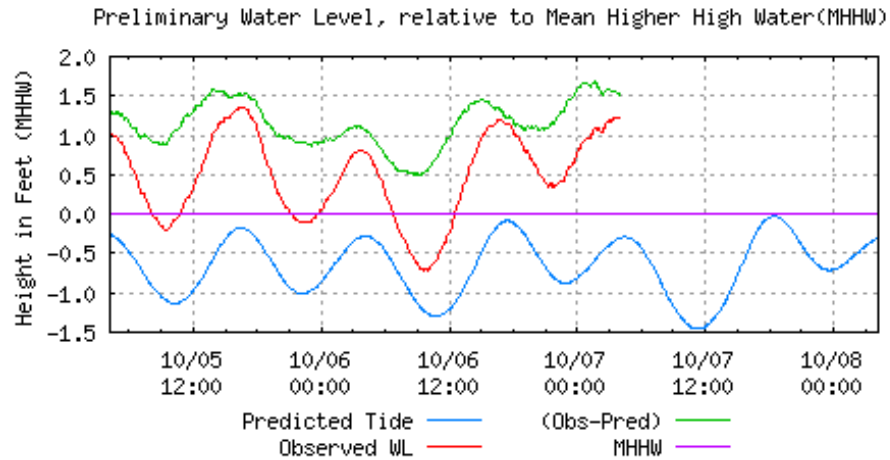
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Forecaster Avila

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [LAWMA, Amerada Pass - Water Level](#), [LAWMA, Amerada Pass - Winds](#), [LAWMA, Amerada Pass - Barometric](#), [Grand Isle - Water Level](#), [Grand Isle - Winds](#), [Grand Isle - Barometric](#), [Pilottown - Water Level](#), [Pilottown - Winds](#), [Pilottown - Barometric](#), [Bay Waveland Yacht Club - Water Level](#), [Bay Waveland Yacht Club - Winds](#), [Bay Waveland Yacht Club - Barometric](#), [Pascagoula NOAA Lab - Water Level](#), [Coast Guard Sector Mobile - Water Level](#), [Coast Guard Sector Mobile - Winds](#), [Coast Guard Sector Mobile - Barometric](#), [Weeks Bay, Mobile Bay - Water Level](#), [Pensacola - Water Level](#), [Panama City - Water Level](#), [Panama City - Winds](#), [Apalachicola - Water Level](#), [Apalachicola - Winds](#), [Apalachicola - Barometric](#)

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



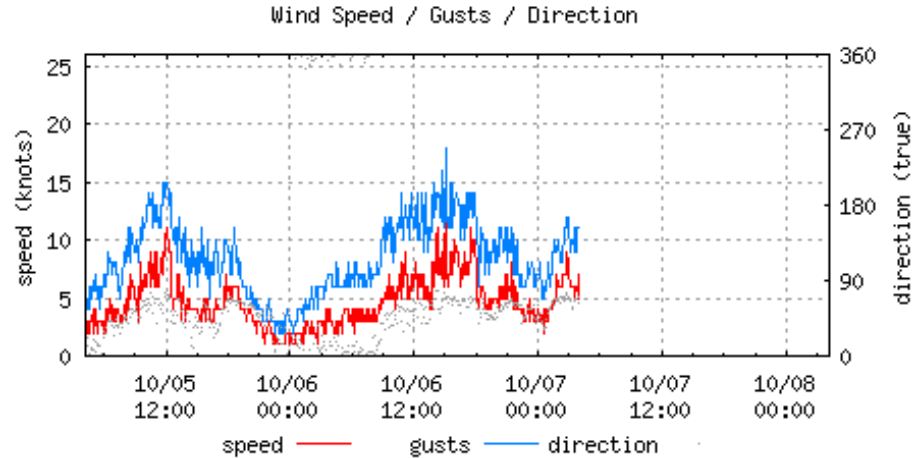
Last Observed Sample: 10/07/2017 04:06 (CDT). Data relative to MHHW

Observed: 1.23 ft. Predicted: -0.30 ft. Residual: 1.53 ft.

Historical Maximum Water Level: Sep 12 2008, 5.94 ft.

Next High Tide: 10/07/2017 04:27 (CDT), -0.29 ft.

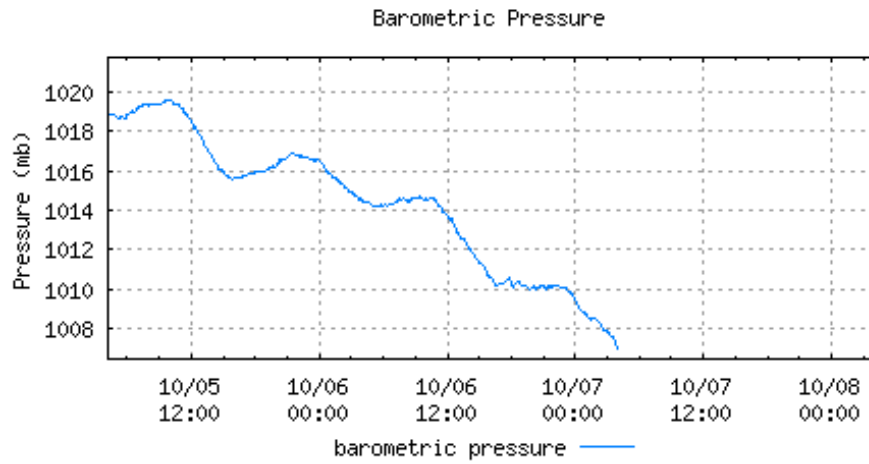
NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/07/2017 04:06 (CDT)

Wind Speed: 6 knots Gusts: 10 knots Direction: 67° T

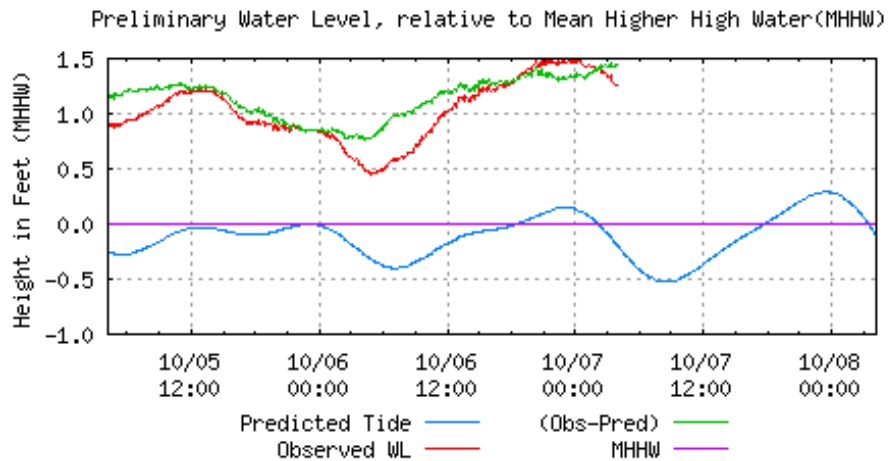
NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/07/2017 04:06 (CDT)

Barometric Pressure: 1006.8 mb

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



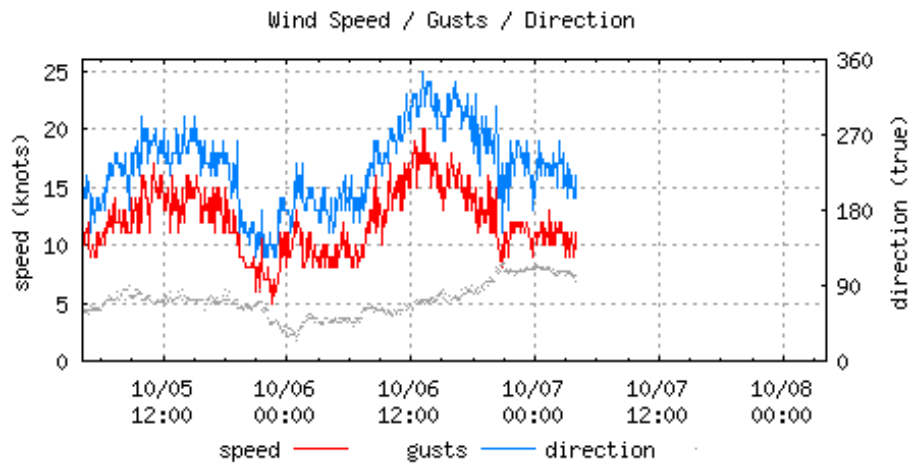
Last Observed Sample: 10/07/2017 04:06 (CDT). Data relative to MHHW

Observed: 1.23 ft. Predicted: -0.21 ft. Residual: 1.44 ft.

Historical Maximum Water Level: Aug 29 2012, 4.45 ft.

Next High Tide: 10/07/2017 23:31 (CDT), 0.29 ft.

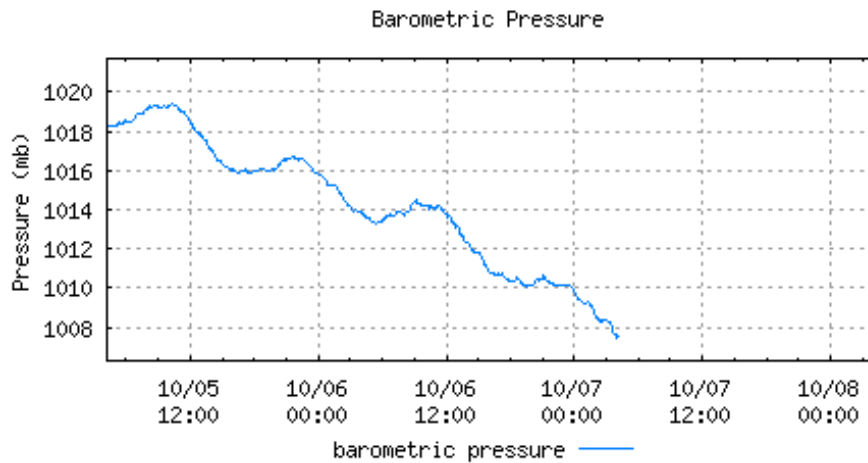
NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



Last Observed Sample: 10/07/2017 04:06 (CDT)

Wind Speed: 11 knots Gusts: 16 knots Direction: 109° T

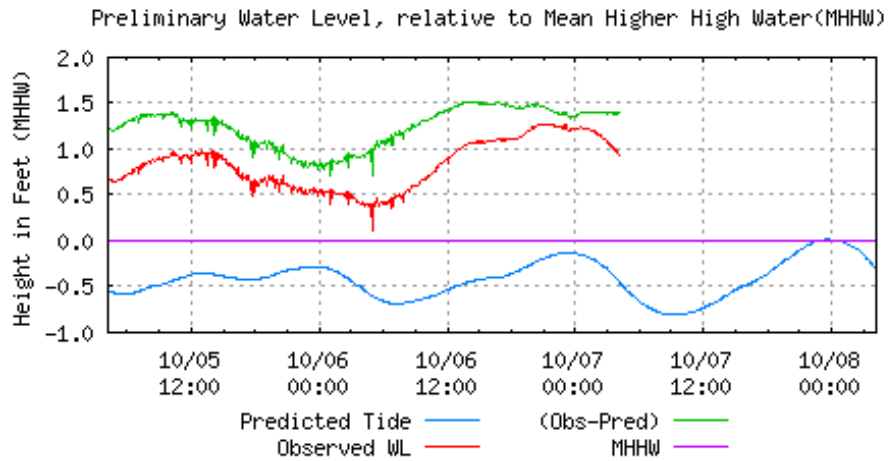
NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



Last Observed Sample: 10/07/2017 04:06 (CDT)

Barometric Pressure: 1007.6 mb

NOAA/NOS/CO-OPS 8760721 Pilottown, LA



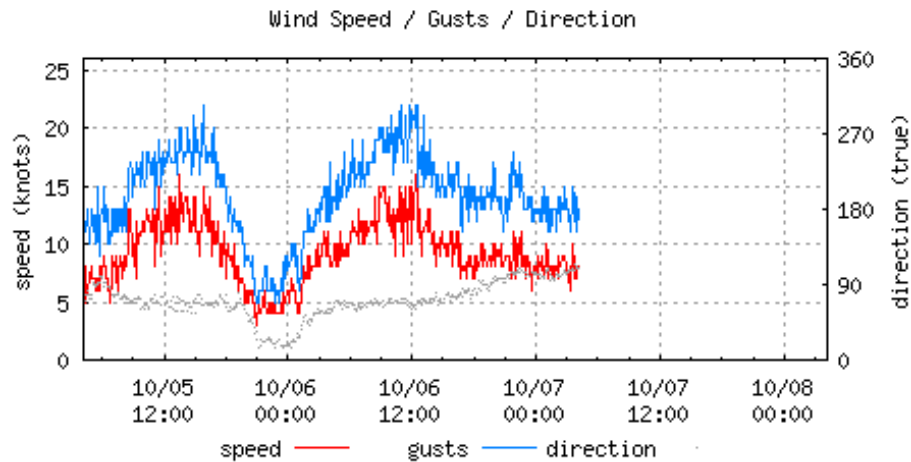
Last Observed Sample: 10/07/2017 04:06 (CDT). Data relative to MHHW

Observed: 0.94 ft. Predicted: -0.45 ft. Residual: 1.39 ft.

Historical Maximum Water Level: n/a

Next High Tide: 10/07/2017 23:36 (CDT), 0.02 ft.

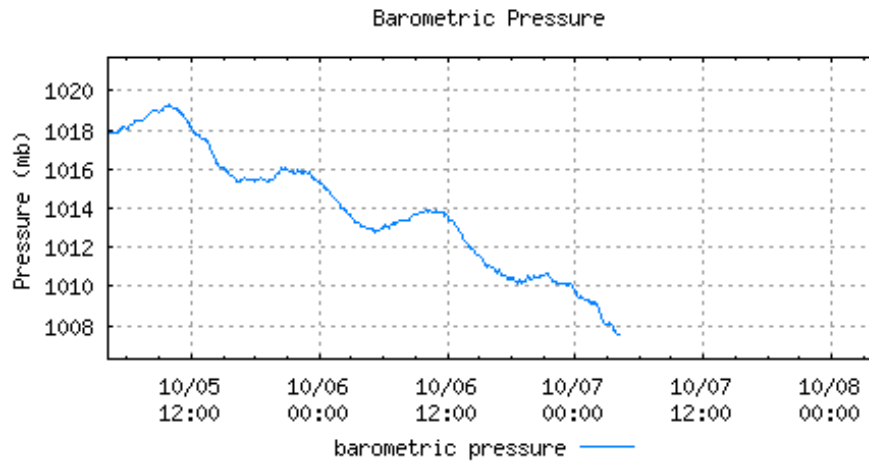
NOAA/NOS/CO-OPS 8760721 Pilottown, LA



Last Observed Sample: 10/07/2017 04:06 (CDT)

Wind Speed: 8 knots Gusts: 13 knots Direction: 110° T

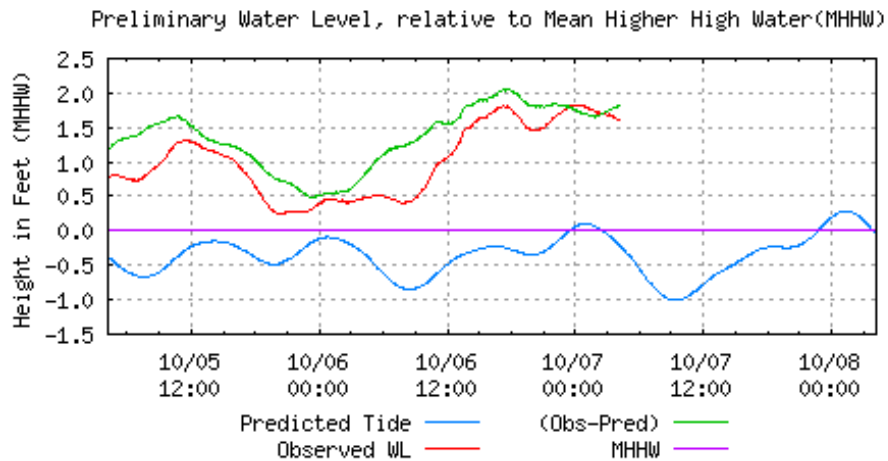
NOAA/NOS/CO-OPS 8760721 Pilottown, LA



Last Observed Sample: 10/07/2017 04:06 (CDT)

Barometric Pressure: 1007.6 mb

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



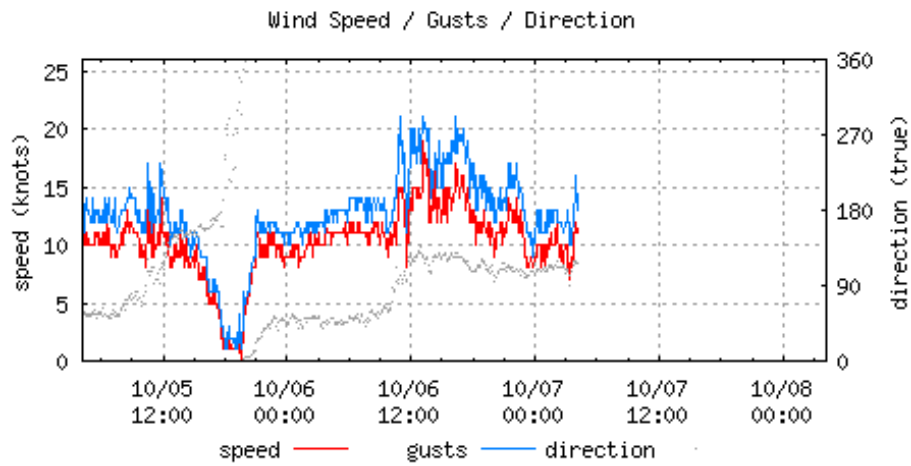
Last Observed Sample: 10/07/2017 04:06 (CDT). Data relative to MHHW

Observed: 1.62 ft. Predicted: -0.21 ft. Residual: 1.83 ft.

Historical Maximum Water Level: Sep 1 2008, 9.10 ft.

Next High Tide: 10/08/2017 01:20 (CDT), 0.29 ft.

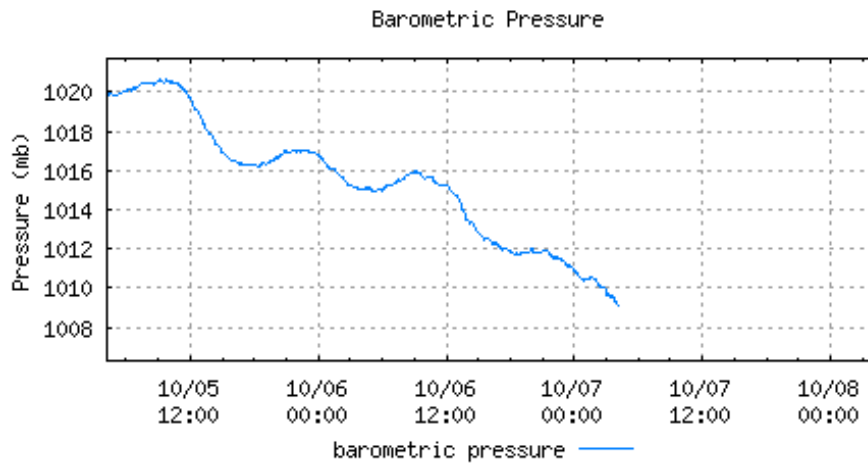
NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



Last Observed Sample: 10/07/2017 04:06 (CDT)

Wind Speed: 11 knots Gusts: 13 knots Direction: 117° T

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

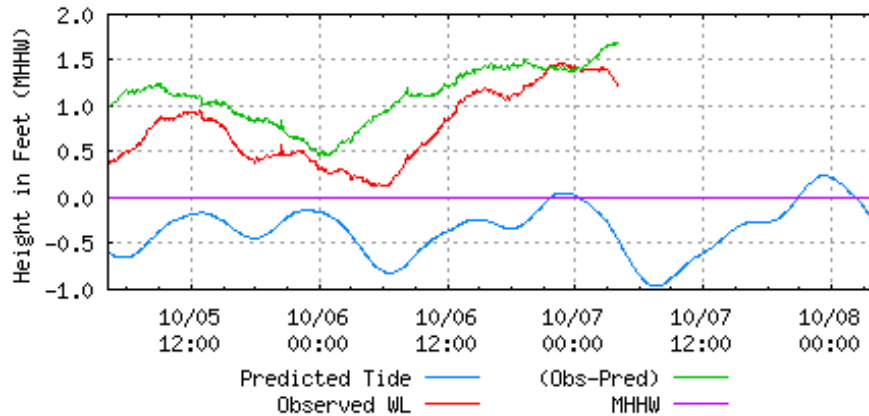


Last Observed Sample: 10/07/2017 04:06 (CDT)

Barometric Pressure: 1009.1 mb

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/07/2017 04:00 (CDT). Data relative to MHHW

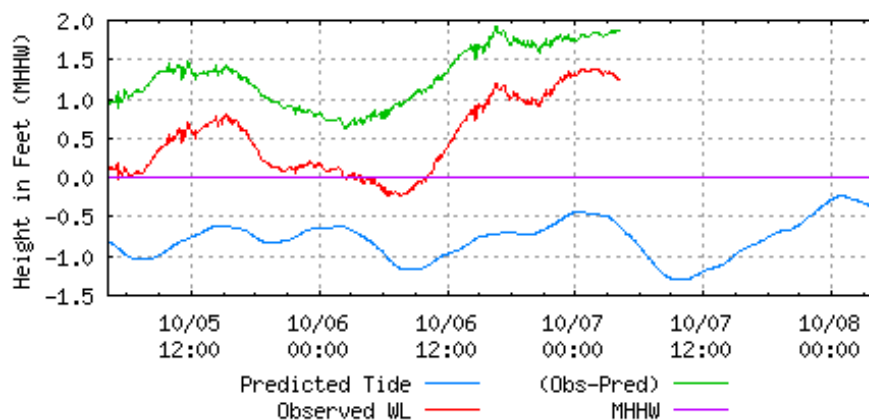
Observed: 1.22 ft. Predicted: -0.46 ft. Residual: 1.68 ft.

Historical Maximum Water Level: Sep 1 2008, 4.90 ft.

Next High Tide: 10/07/2017 23:20 (CDT), 0.24 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



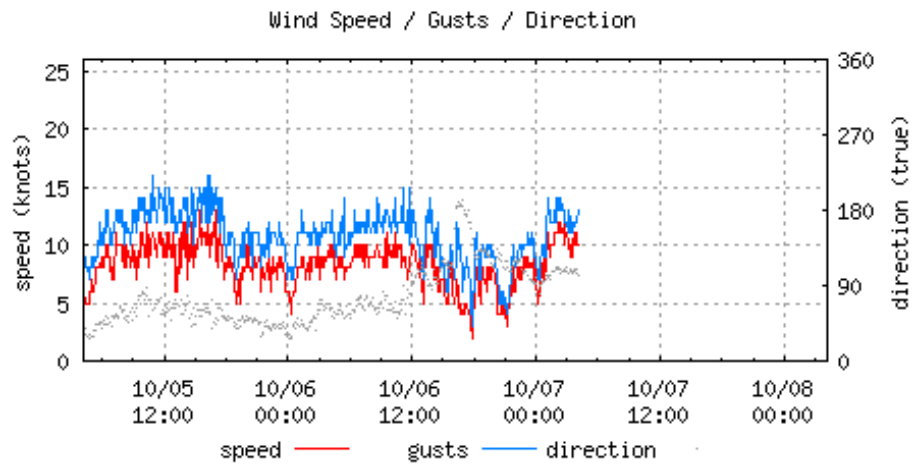
Last Observed Sample: 10/07/2017 04:06 (CDT). Data relative to MHHW

Observed: 1.26 ft. Predicted: -0.61 ft. Residual: 1.87 ft.

Historical Maximum Water Level: Sep 1 2008, 3.80 ft.

Next High Tide: 10/08/2017 00:56 (CDT), -0.24 ft.

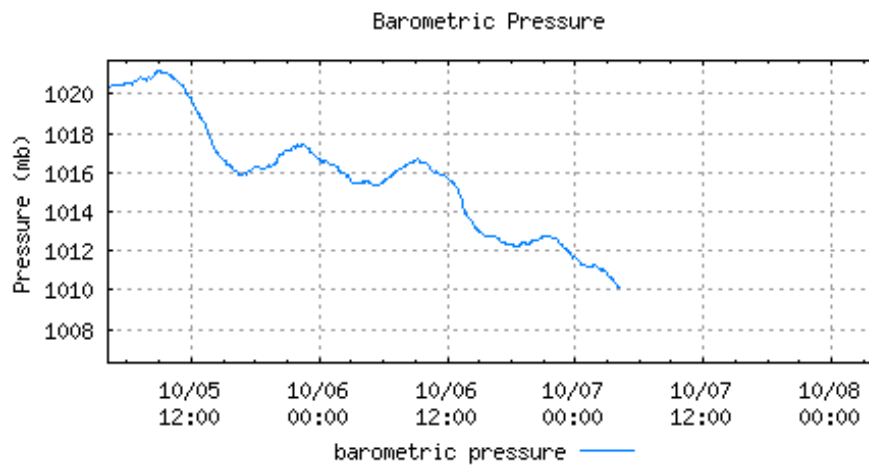
NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL



Last Observed Sample: 10/07/2017 04:06 (CDT)

Wind Speed: 10 knots Gusts: 13 knots Direction: 102° T

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

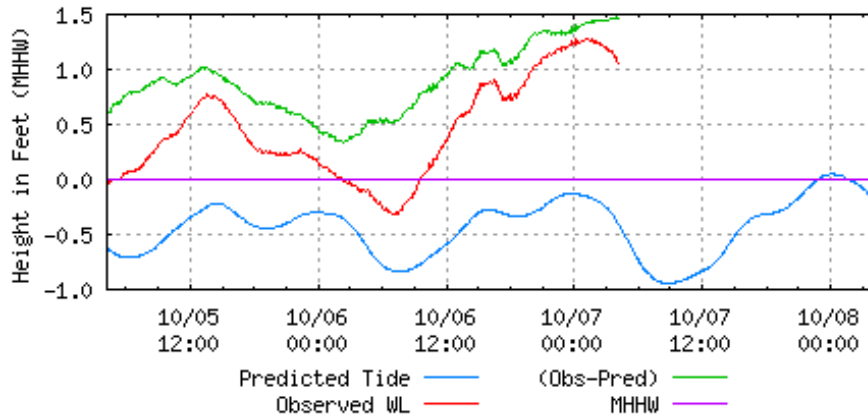


Last Observed Sample: 10/07/2017 04:06 (CDT)

Barometric Pressure: 1010.1 mb

NOAA/NOS/CO-OPS 8732828 Weeks Bay, Mobile Bay, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/07/2017 04:12 (CDT). Data relative to MHHW

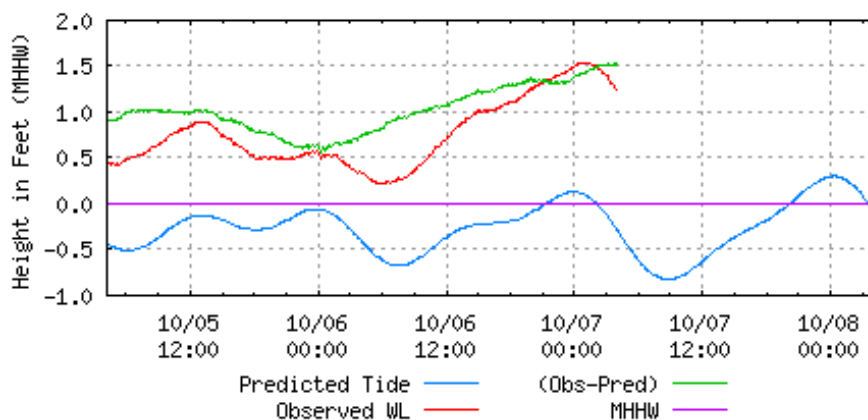
Observed: 1.05 ft. Predicted: -0.41 ft. Residual: 1.46 ft.

Historical Maximum Water Level: Aug 29 2012, 2.85 ft.

Next High Tide: 10/08/2017 00:10 (CDT), 0.04 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



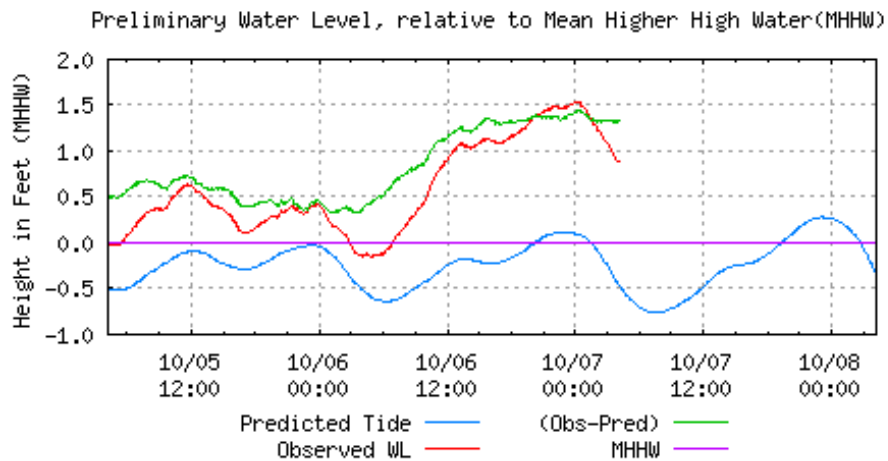
Last Observed Sample: 10/07/2017 04:06 (CDT). Data relative to MHHW

Observed: 1.24 ft. Predicted: -0.30 ft. Residual: 1.54 ft.

Historical Maximum Water Level: Sep 18 1926, 7.41 ft.

Next High Tide: 10/08/2017 00:19 (CDT), 0.30 ft.

NOAA/NOS/CO-OPS 8729108 Panama City, FL



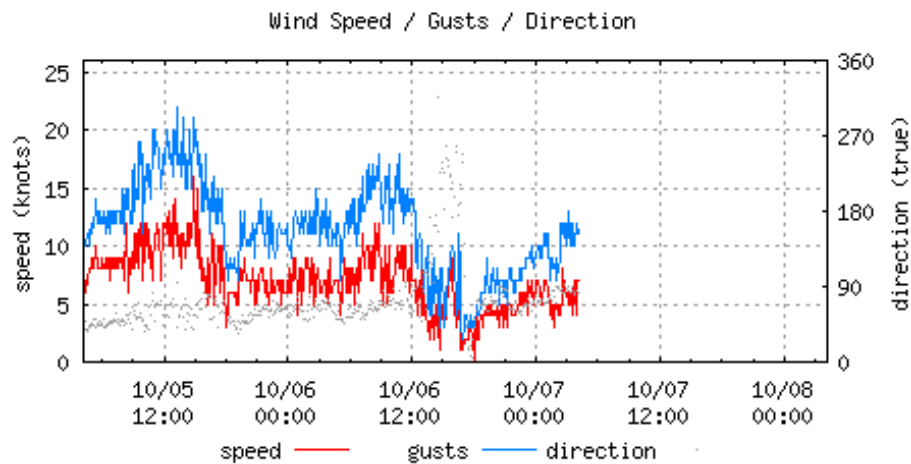
Last Observed Sample: 10/07/2017 04:12 (CDT). Data relative to MHHW

Observed: 0.88 ft. Predicted: -0.47 ft. Residual: 1.35 ft.

Historical Maximum Water Level: Oct 4 1995, 5.72 ft.

Next High Tide: 10/07/2017 23:08 (CDT), 0.27 ft.

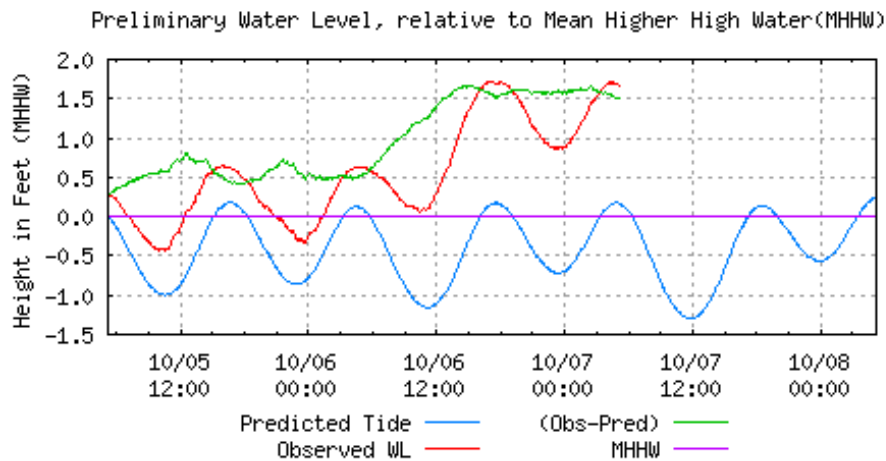
NOAA/NOS/CO-OPS 8729108 Panama City, FL



Last Observed Sample: 10/07/2017 04:12 (CDT)

Wind Speed: 5 knots Gusts: 11 knots Direction: 79° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



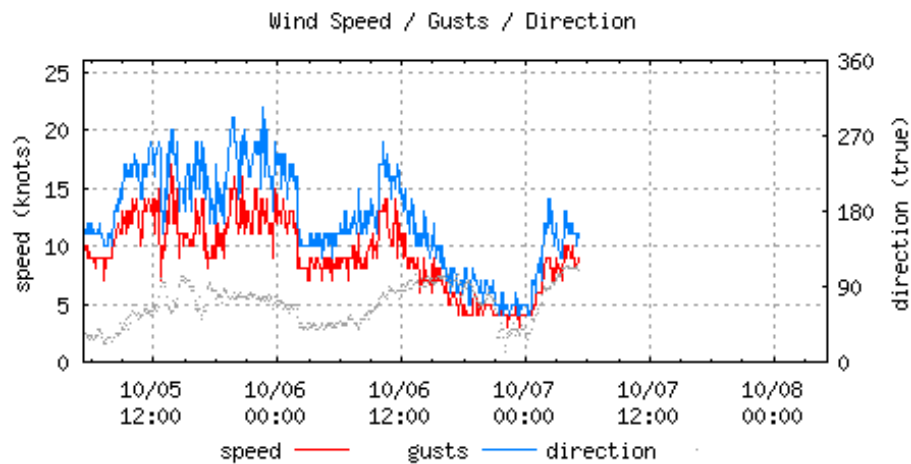
Last Observed Sample: 10/07/2017 05:12 (EDT). Data relative to MHHW

Observed: 1.66 ft. Predicted: 0.17 ft. Residual: 1.49 ft.

Historical Maximum Water Level: Jul 10 2005, 6.43 ft.

Next High Tide: 10/07/2017 18:30 (EDT), 0.13 ft.

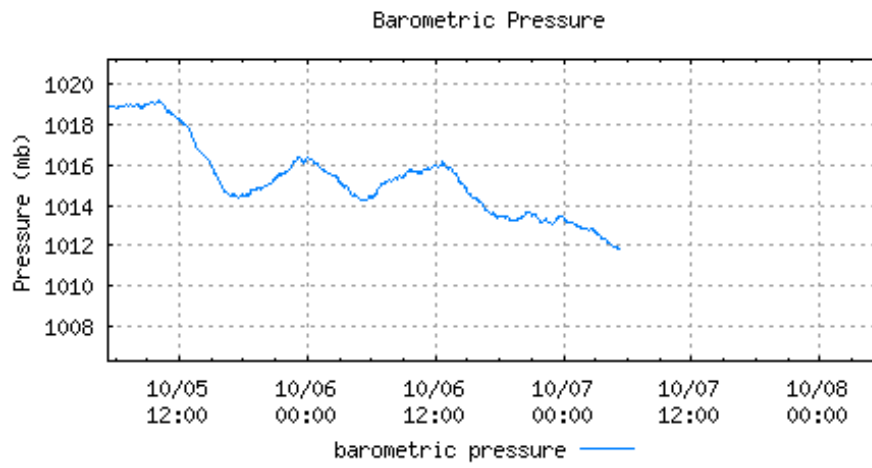
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/07/2017 05:12 (EDT)

Wind Speed: 8 knots Gusts: 11 knots Direction: 111° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/07/2017 05:12 (EDT)

Barometric Pressure: 1011.8 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8764227	LAWMA, Amerada Pass, LA	10/07/2017 04:06 (CDT)	1.23 ft	-0.30 ft	1.53 ft	1.23 ft
8761724	Grand Isle, LA	10/07/2017 04:06 (CDT)	1.23 ft	-0.21 ft	1.44 ft	1.50 ft
8760721	Pilottown, LA	10/07/2017 04:06 (CDT)	0.94 ft	-0.45 ft	1.39 ft	1.27 ft
8747437	Bay Waveland Yacht Club, MS	10/07/2017 04:06 (CDT)	1.62 ft	-0.21 ft	1.83 ft	1.82 ft
8741533	Pascagoula NOAA Lab, MS	10/07/2017 04:00 (CDT)	1.22 ft	-0.46 ft	1.68 ft	1.47 ft
8736897	Coast Guard Sector Mobile, AL	10/07/2017 04:06 (CDT)	1.26 ft	-0.61 ft	1.87 ft	1.38 ft
8732828	Weeks Bay, Mobile Bay, AL	10/07/2017 04:12 (CDT)	1.05 ft	-0.41 ft	1.46 ft	1.27 ft
8729840	Pensacola, FL	10/07/2017 04:06 (CDT)	1.24 ft	-0.30 ft	1.54 ft	1.54 ft
8729108	Panama City, FL	10/07/2017 04:12 (CDT)	0.88 ft	-0.47 ft	1.35 ft	1.54 ft
8728690	Apalachicola, FL	10/07/2017 05:12 (EDT)	1.66 ft	0.17 ft	1.49 ft	1.72 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce